**Inductive Shaft encoder, Absolute**

- 58mm diameter
- Extremely robust design
- Shock and vibration protected
- Inductive scanning
- Stainless steel EN 1.4404/AISI 316L

**EnDat 2.2****Encoder configuration**

Type	ISA
Model	638 Multiturn stainless steel
Shaft type	Ø10 mm shaft with face
Flange type	Clamping flange (61sp-type)
Incremental signal resolution	32 ppr 1Vpp
Power supply	3.6-14 Vdc
Output interface	EnDat 2.2 with additional 1Vpp signals
Absolute resolution	25 bit (13 bit singleturn + 12 bit multiturn)
Connection type	M23 connector 17-pin
Connecting direction	Radial

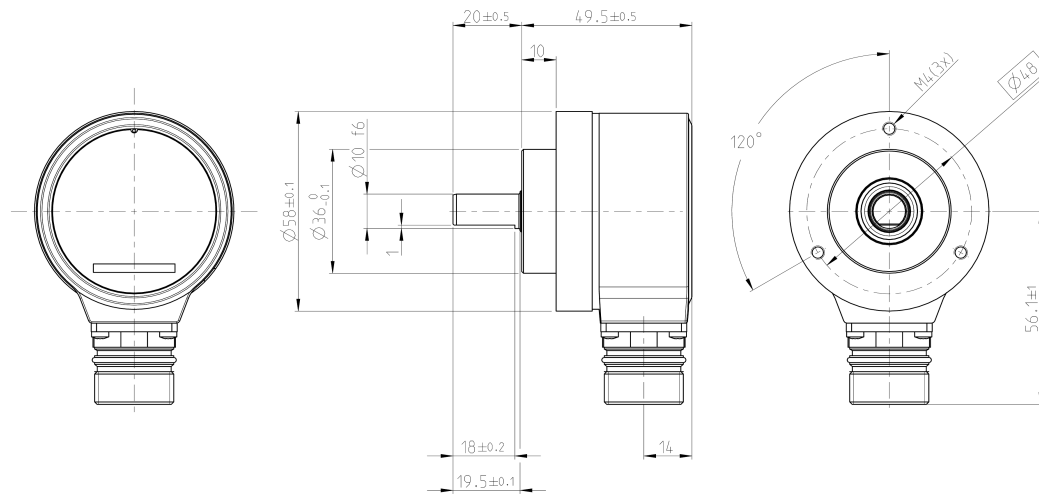
**Mechanical data**

Operating temperature	-40 °C...+100 °C
Ingress protection class [IEC 60529]	IP67
Vibration [IEC 60068-2-6]	≤ 300 m/s <sup>2</sup>
Shock [IEC 60068-2-27]	≤ 2000 m/s <sup>2</sup>
Shaft load (axial/radial)	100 / 125 N
Rotational speed max	12000 rpm
Shaft material	Stainless steel
Cover material	Stainless steel A4, AISI 316L/EN 1.4404
Weight	340 g

**Electrical data**

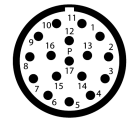
Polarity protected	No
Current consumption	100 mA at 5 Vdc
Absolute accuracy	± 180 arcsec

## Dimensions



## Pin Configuration

Function	Pin / Cable colour
0 Volt	10 / White-Green
0V sense	4 / White
+E Volt	7 / Brown-Green
+EV sense	1 / Blue
A	15 / Green-Black
A inverted	16 / Yellow-Black
B	12 / Blue-Black
B inverted	13 / Red-Black
Data	14 / Grey
Data inverted	17 / Pink
Clock	8 / Violett
Clock inverted	9 / Yellow
Internal shield	11 / Internal shield
Chassis	Shield



## Order information

Part number 1095406-01